

Amendments to the Claims

The following listing of claims will replace all prior versions and listing of claims in the application.

1. (Previously Presented) A drive roll adapted and configured to feed weld wire, comprising:

- (a) opposing first and second sides;
- (b) a drive roll body extending between the first and second sides and having an outer circumferential surface;
- (c) an elevated wire interface, for conveying a weld wire, extending radially out from the outer circumferential surface and defining a first profile shape;
- (d) a channel extending radially into the outer circumferential surface and defining a second profile shape that is dissimilar to the first profile shape of the elevated wire interface,

wherein each of the elevated wire interface and channel defines a portion of the outer circumferential surface of the drive roll body.

2. (Previously Presented) A drive roll as in Claim 1, further comprising first and second elevated wire interfaces, axially spaced from each other and each extending along a major circumferential portion of the outer circumferential surface.

3. (Previously Presented) A drive roll as in Claim 1 wherein the elevated wire interface is adjacent, but displaced from, at least one of the first and second sides.

4. (Previously Presented) A drive roll as in Claim 2 wherein each of the first and second elevated interfaces is adjacent, but displaced from, at least one of the first and second sides.

5. (Previously Presented) A drive roll as in Claim 1 wherein the elevated wire interface and the channel intersect each other and define a peak therebetween.

6. (Previously Presented) A drive roll as in Claim 1 wherein the elevated wire interface includes a wire conveying groove extending thereinto, and wherein a cross-section configuration of the groove corresponds in magnitude to a diameter of such weld wire for which said drive roll is designed and configured.

7. (Previously Presented) A drive roll as in Claim 2 further comprising first and second channels, wherein the first channel and first elevated wire interface are adjacent each other and the second channel and second elevated wire interface are adjacent each other.

8. (Previously Presented) A drive roll as in Claim 6, the wire conveying groove of the elevated wire interface defining a groove depth dimension and the channel defining a channel depth dimension, a magnitude of the channel depth dimension being greater than a magnitude of the groove depth dimension.

9. (Previously Presented) A drive roll as in Claim 1, further comprising at least one rim extending outwardly from said outer circumferential surface.

10. (Previously Presented) A drive roll as in Claim 9 wherein said at least one rim extends radially further from the outer circumferential surface than the remainder of the drive roll.

11. (Currently Amended) A drive roll as in Claim 6, wherein the wire conveying groove defines a lowermost portion thereof and the channel defines a lowermost portion thereof, the lowermost portion of the channel being radially nearer an axis of rotation of the drive roll than the ~~lower most~~lowermost portion of the groove.

12. (Currently Amended) A drive roll as in Claim 6, wherein ~~the outermost portions~~ of the wire conveying groove are defined between first and second elevated circumferential peaks.

13. (Previously Presented) A drive roll as in Claim 6 wherein the wire conveying groove defines a generally angular cross-section.

14. (Original) A drive roll as in Claim 9 wherein an outermost surface of said rim, from an axis of rotation of said drive roll, defines a generally planar or arcuate profile.

15. (Original) A wire feeder assembly adapted and configured to feed weld wire, said wire feeder assembly comprising a drive roll as in Claim 1.

16. (Original) A welding system comprising a wire feeder assembly as in Claim 15.

17. (Canceled)

18. (Currently Amended) A drive roll adapted and configured to feed weld wire, comprising:

(a) opposing first and second sides which define a width dimension therebetween; and

(b) a drive roll body extending between the first and second sides, the drive roll body having an outer circumferential surface; and

(c) at least one rim extending radially outwardly from the outer circumferential surface adjacent the first and second sides;

(d) at least one channel ~~a channel~~ extending radially into the outer circumferential surface,

wherein ~~one of the at least one rim and one of the at least one channel share a common sidewall segment~~ a pair of radially aligned drive rolls, that are brought into contact with each other, touch only at the respective rims adjacent sides, and define a clearance between remaining aligned portions thereof.

19. (Currently Amended) ~~A drive roll as in Claim 18, further comprising~~ A drive roll adapted and configured to feed weld wire, comprising:

(a) opposing first and second sides which define a width dimension therebetween;

(b) a drive roll body extending between the first and second sides, the drive roll body having an outer circumferential surface;

(c) at least one rim extending radially outwardly from the outer circumferential surface; and

(d) at least one channel extending radially into the outer circumferential surface,

wherein one of the at least one rim and one of the at least one channel share a common sidewall segment, and wherein at least one elevated wire interface ~~extending~~ extends outwardly from, and along, at least a major circumferential portion of said outer circumferential surface.

20. (Previously Presented) A drive roll as in Claim 19, said at least one rim and said at least one elevated wire interface being laterally separated from each other by a distance therebetween which includes at least a portion of said outer circumferential surface.

21. (Previously Presented) A drive roll as in Claim 19 wherein said at least one elevated wire interface extends outwardly from said outer circumferential surface a first distance at a given locus on the periphery of the drive roll and wherein said at least one rim extends outwardly from said outer circumferential body surface a second distance at the given locus on the periphery of the drive roll, the magnitude of first distance being less than the magnitude of the second distance.

22. (Previously Presented) A drive roll as in Claim 19 wherein said at least one elevated wire interface is spaced from both of the first and second sides.

23. (Previously Presented) A drive roll as in Claim 21 wherein said at least one rim is at or proximate at least one of the first and second sides.

24. (Previously Presented) A drive roll as in Claim 19 wherein said at least one elevated wire interface has a circumferential groove extending thereinto.

25. (Currently Amended) A drive roll as in Claim 18 wherein ~~the~~an outermost surface of said rim defines a generally planar or arcuate profile.

26. (Currently Amended) A drive roll as in Claim 21 wherein ~~the~~an outermost surface of said rim defines a generally planar or arcuate profile.

27. (Currently Amended) A drive roll as in Claim 23 wherein ~~the~~an outermost surface of said rim defines a generally planar or arcuate profile.

28. (Original) A wire feeder assembly adapted and configured to feed weld wire, said wire feeder assembly comprising a drive roll as in Claim 18.

29. (Original) A welding system comprising a wire feeder assembly as in Claim 28.

30-40. (Cancelled)